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COST IN U.S. DOLLARS

SINCE FILE TOTAL
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FILE 'USPAT2' ENTERED AT 09:47:37 ON 19 MAY 2003 CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> s Ong, Beng S./in

'IN' IS NOT A VALID FIELD CODE L1 140 ONG, BENG S./IN

=> s 11 and polythiophene#

L2 0 L1 AND POLYTHIOPHENE#

=> s polythiophene#

L3 4806 POLYTHIOPHENE#

=> s 13 and tetrahydrofuran

L4 1218 L3 AND TETRAHYDROFURAN

=> s 14 and diphenyl phosphinoethane?

L5 0 L4 AND DIPHENYL PHOSPHINOETHANE?

=> s 14 and (dichloro-nickel or dichloronickel)

L6 3 L4 AND (DICHLORO-NICKEL OR DICHLORONICKEL)

=> d 16 1-3

L6 ANSWER 1 OF 3 PCTFULL COPYRIGHT 2003 Univentio



AN TIEN TIFR IN 2003001616 PCTFULL ED 20030115 EW 200301
LIGHT EMITTING MATERIAL AND ORGANIC LIGHT-EMITTING DEVICE
MATERIAU PHOTOEMETTEUR ET DISPOSITIF PHOTOEMETTEUR ORGANIQUE
TAKEUCHI, Masataka, Corporate R & D Center, Showa Denko K.K., 1-1,
Ohnodai 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP];
NAIJO, Shuichi, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai
1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP];
ITO, Naoko, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai
1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP];
SHIRANE, Koro, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai
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IGARASHI, Takeshi, Corporate R & D Center, Showa Denko K.K., 1-1,
Ohnodai 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP];

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TAKAHASHI, Yoshiaki, Corporate R & D Center, Showa Denko K.K., 1-1,
       Ohnodai 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP];
       KAMACHI, Motoaki, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai
       1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP]
       SHOWA DENKO K.K., 13-9, Shiba Daimon 1-chome, Minato-ku, Tokyo 105-8518,
PΑ
       JP [JP, JP], for all designates States except US;
       TAKEUCHI, Masataka, Corporate R & D Center, Showa Denko K.K., 1-1,
       Ohnodai 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP], for
       US only;
       NAIJO, Shuichi, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai
       1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP], for US only;
       ITO, Naoko, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai
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       SHIRANE, Koro, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai
       1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP], for US only;
       IGARASHI, Takeshi, Corporate R & D Center, Showa Denko K.K., 1-1,
       Ohnodai 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP], for
       US only;
       TAKAHASHI, Yoshiaki, Corporate R & D Center, Showa Denko K.K., 1-1,
       Ohnodai 1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP], for
       KAMACHĪ, Motoaki, Corporate R & D Center, Showa Denko K.K., 1-1, Ohnodai
       1-chome, Midori-ku, Chiba-shi, Chiba 267-0056, JP [JP, JP], for US only
AG
       OHIE, Kunihisa, Ohie Patent Office, Horiguchi No.2 Bldg. 7F, 2-6,
       Nihonbashi-Ningyocho 2-chome, Chuo-ku, Tokyo 103-0013, JP
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       English
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PΙ
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       JP 2001-2001-186120
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       JP 2002-2002-90590
                               20020328
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       H01L051-30
L6
    ANSWER 2 OF 3 USPATFULL
   Full
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         References
ΑN
       2003:93810 USPATFULL
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Luminescent element material, luminescent element, ethylene derivative

having n-containing 7-membered ring, and benzoazepine derivative

3 of 4

TI

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Sato, Tadahisa, Kanagawa, JAPAN
IN
       Okada, Hisashi, Kanagawa, JAPAN
PA
       FUJI PHOTO FILM CO., LTD. (non-U.S. corporation)
       <u>US 2003065171</u>
                                20030403
PI
                           Α1
       US 2002-141001
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                                20020509 (10)
ΑI
       Division of Ser. No. US 1999-413848, filed on 7 Oct 1999, GRANTED, Pat.
RLI
       No. US 6413657
       JP 1998-285508
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       APPLICATION
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NCL
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       [7]
       ICM: C07D223-18
       ICS: C09K011-06; H05B033-12
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 3 OF 3 USPATFULL
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          References
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1.6

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2002:160473 USPATFULL
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       Benzoazepine derivative polymers as luminescent element materials
ΤI
       Sato, Tadahisa, Kanagawa, JAPAN
IN
       Okada, Hisashi, Kanagawa, JAPAN
       Fuji Photo Film Co., Ltd., Kanagawa, JAPAN (non-U.S. corporation)
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              428/690.000
              252/301.350; 257/040.000; 257/103.000; 313/504.000; 313/506.000;
       NCLS:
              428/500.000; 428/917.000; 526/259.000
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       ICS: C09K011-06; C08F026-06
       428/690; 428/704; 428/917; 428/500; 428/523; 313/504; 313/506;
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       252/301.35; 257/40; 257/103; 526/259; 540/576
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
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